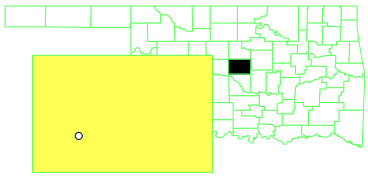
MOSLEY ROAD SANITARY LANDFILL SITE
Oklahoma County, Oklahoma



EPA Region 6
EPA ID# OKD980620868
State Congressional District: 5
Fact Sheet Updated: April 2003
Next Update: June 2003

SITE DESCRIPTION

Location: The Mosley Road Sanitary Landfill Site is located at 3300 Mosley Road, and bordered to the north by NE 36th, to the south by NE 23rd Streets, to the east by Burlington Northern rail line ,and to the west by Mosley Road. Across from Mosley Road, there is a currently operating municipal solid waste landfill (East Oak Recycling and Disposal Facility).

Population: Approximately 875 people live within a one-mile radius of the Site. An estimated 57,000 people, including residents of Spencer and Midwest City, obtain drinking water from public and private wells within three miles of the Site.

Setting: The Site covers approximately 72 acres. Pesticides, industrial solvents, sludge, waste chemicals, and emulsions were deposited into three unlined pits. The pits are covered with approximately 80 feet of solid refuse and fill and a clay cap..

Two interconnected aquifers are present beneath the Site; the upper aquifer is associated with alluvial deposits of the North Canadian River and the lower one is associated with the Garber-Wellington Formation. The Garber-Wellington Formation is a primary ground water resource for the area.

PRESENT STATUS AND ISSUES

- Construction & Demolition (C&D) Debris Placement: 90% complete.
- Landfill Cover System: 50% complete. Final vegetative layer/cover will be placed after C&D placement is complete.
- Landfill Gas Management System: 65% complete. 27 out of 43 extraction wells operational. The rest are scheduled to be completed when C&D placement is complete.
- Institutional Controls: 100% complete.
- Ground Water Monitoring System: 100% complete. Semi-annual monitoring is ongoing.

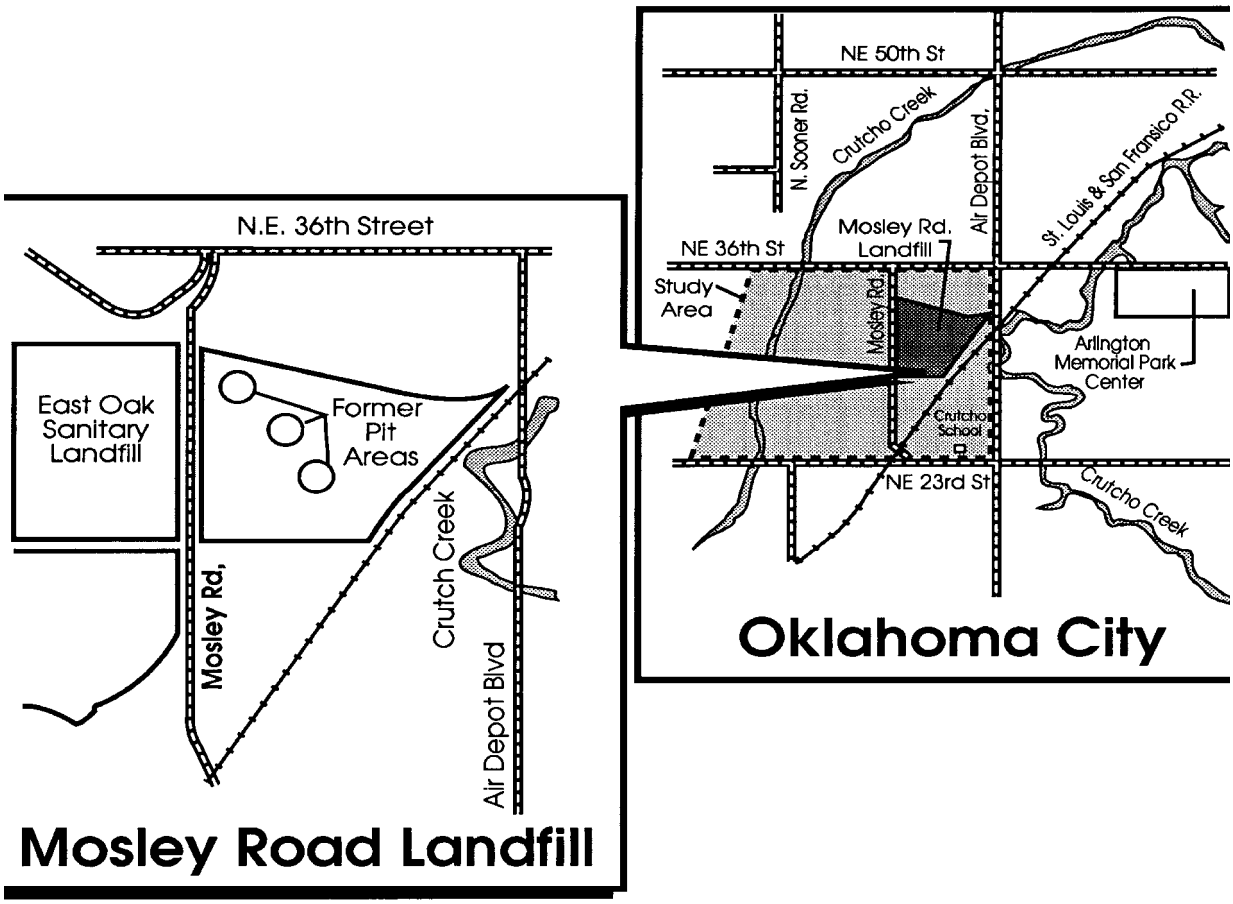
WASTES AND VOLUMES

- The principal contaminants at the Site include industrial hazardous wastes deposited into three unlined, on-site pits. Benzene and vinyl chloride were found in the ground water.
- Approximately two million gallons of industrial wastes were disposed into the on-site pits while the landfill was operating.

NATIONAL PRIORITIES LIST

NPL Inclusion Proposal Date:	June 24, 1988
NPL Inclusion Final Date:	February 21, 1990
NPL Deletion Proposal Date:	n/a
NPL Deletion Final Date:	n/a

SITE MAP



SITE HISTORY

- June 1973: Permit to operate Site as a sanitary landfill received from Oklahoma State Department of Health (OSDH).
- February 20 to August 24, 1976, the Site accepted approximately two million gallons of primarily liquid hazardous waste in three unlined pits near the landfill's base. This was permitted by the OSDH, now Oklahoma Department of Environmental Quality (ODEQ), under a Temporary Emergency Waiver for Hazardous Waste Disposal.
- November 1987: Site reached permitted capacity and was closed.
- 1988: Compacted clay cap cover installed over the landfill.
- January 1990 to August 1991: Remedial Investigation (RI) initiated and completed.
- November 1991: Feasibility Study (FS) completed.
- June 29, 1992: Record of Decision (ROD) signed.
- January 28, 1994: Remedial design (RD) commences.
- April 1, 1994: Deed restrictions filed with Oklahoma County Clerk (OCC).
- May 12, 1994: Deed notice filed with OCC.
- January 5, 1995: EPA approves the use of C&D debris as fill material for the landfill.
- February 9 to February 25 1995: Installation of ground water monitoring wells initiated and completed.
- August 24, 1995: Construction of landfill gas management system commences.
- November 6, 1995: RD completed.
- February 21 to May 24, 1996: Construction of surface water drainage, access roads, and Phase I clay soil cover remediation initiated and completed. Phase I of the clay soil cover remediation addressed ~25.8 acres of the lower part of the landfill slope and the northeast disposal area. The remaining ~27 acres portion of the landfill started receiving C&D debris, following the Phase I completion, to raise existing grades and reach landfill design elevations for remaining cover system.
- February 26 to July 21, 1998: Wells and piezometers not part of the ground water monitoring network are plugged and abandoned.
- The first 5-Year Review was completed on September 29, 2000.

ENFORCEMENT HISTORY

- July 28, 1989, EPA, Waste Management of Oklahoma, Inc., and Mobile Waste Controls, Inc., entered into an Administrative Order on Consent for performance of the Remedial Investigation/Feasibility Study (RI/FS).

- January 28, 1994: EPA issued an Unilateral Administrative Order to PRPs for performance of the Remedial Design/Remedial Action (RD/RA).

HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT

- Ground water (Garber-Wellington Formation) is a primary ground water resource for the area. Significant potential for ground water contamination exists due to the interconnection of the Garber-Wellington Formation with the upper aquifer underneath the Site.

RECORD OF DECISION

Signed June 29, 1992:

The ROD's remedy included:

- Restoration of ground water as a potential source of drinking water through natural attenuation.

- Continued ground water monitoring to determine if current conditions improve through time, remain constant, or worsen.

- Monitoring of leachate migration via ground water monitoring and periodic sampling

- Implementation of active ground water remediation contingencies if triggered by the contingency measure criteria.

- Repair and improvement of the existing cap and addition of a vegetative soil layer.

- Access restrictions, including installation of signs, restrictions on future use of the property, fencing, and restrictions on use of ground water from Site water wells

- Implementation of a landfill gas monitoring system to prevent explosion or inhalation hazards.

COMMUNITY INVOLVEMENT

- Community Involvement Plan: Developed 12/89 - Revision under way.
- Open houses and workshops: 9/89, 2/90, and 4/92

- Original Proposed Plan Fact Sheet and Public Meeting: 4/92
- Original ROD Fact Sheet: 9/11/92
- Milestone Fact Sheets: 8/88, 6/89, 2/90, 12/91, ROD Fact Sheet
- Citizens on Site mailing list: 50
- Constituency Interest: Contamination and health effects of contaminated ground water.
- Site Repository: Ralph Ellison Library, 2000 Northeast 23rd, Oklahoma City, OK 73111

TECHNICAL ASSISTANCE GRANT

- Availability Notice: 06/13/89, re advertised 08/31/90
- Letters of Intent Received:
  1) Environmental Pollution and Health Concerns Coalition (EPHCC): 06/16/89 (withdrawn)
  2) North Canadian Preservation Assoc. (NCPA): 06/26/92
- Draft Application Received: NCPA submitted draft application for TAG on 11/11/92
- Grant Award: 09/13/93
- Budget Period: 09/01/93-08/31/96
- Grantee: North Canadian Preservation Assoc. (Helen M. Longwith, President, Oklahoma City. OK). TAG terminated 12/22/97 per request by grantee.

SITE CONTACTS

EPA Remedial Project Manager:	Stephen Tzhone	214.665.8409 or 800.533.3508
EPA Site Attorney:	Amy McGee	214.665.8063 or 800.533.3508
EPA Region 6 Ombudsman:	Arnold Ondarza	800.533.3508
ODEQ Mosley Road Contact:	Dennis Datin	405.702.5125
ODEQ East Oak Contact:	Wesley Squyres	405.702.5197

REALIZED CLEANUP BENEFITS

Remediation of the Mosley Road Sanitary Landfill Superfund Site reduces environmental and health risks for over 875 people within a 1 mile radius of the Site. Future land use will be limited to industrial use on this Site.